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January 20, 2004

Division of Dockets Management (HFA 305)
Food and Drug Administration
5630 Fishers Lane, Room 1061
Rockville, MD 20852

Docket No.: 1994N-0418 Reclassification of Automatic External Defibrillators

Dear Medical Device Classification Officer:

I am writing as a healthcare professional to encourage you to reclassify Automatic External Defibrillators (AEDs) from Class III to Class II, as a medical device. I understand that this reclassification will allow AEDs to reach the American market more quickly, but with reasonable safeguards for pre-marketing testing and assurance that they will function properly. My own interests in AEDs stem from my involvement for the last 15 years under the American Heart Association, and the National Heart Lung and Blood Institute auspices in the development, testing of AEDs for public use (see CV and papers). I was President of the American Heart Association in 1990. I chaired a taskforce of the American Heart Association that championed covering AEDs by the Good Samaritan Laws, and allowing advancement of AEDs through the FDA Regulatory System as "prescription device" to be placed in the hands of non-professionals for use during cardiac arrest. References to papers published by the task force include:

1. **Weisfeldt ML**, Kerber RE, McGoldrick RP, Moss AJ, Nichol G, Ornato JP, Palmer DG, Riegel B, Smith Jr. SC: American Heart Association Report on the Public Access Defibrillation Conference December 8-10, 1994. *Circulation*. 1995; 92:2740-2747
2. Nichol G, Hallstrom AP, Kerber R, Moss AJ, Ornato JP, Palmer D, Riegel B, Smith S, **Weisfeldt ML**: American Heart Association report on the second public access defibrillation conference, April 17-19, 1997, Special Report. *Circulation*. 97:1309-1314, 1998.
3. Nichol G, Hallstrom A, Ornato JP, Riegel B, Stiell I, Valenzuela T, Wells G, White RD, **Weisfeldt ML**: Increased public access to defibrillation could prove potentially cost-effective and life-saving. *Circulation*. 97:1315-1320, 1998.

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4. Weil MH, Becker L, Budinger T, Kern K, Nichol G, Shechter I, Traystman R, Wiedemann H, Wise R, **Weisfeldt M**, Sopko G: Workshop executive summary report: post-resuscitative and initial utility in life saving efforts (PULSE). *Circulation*. 103:1182-1184, 2001.
5. Becker L, **Weisfeldt M**, Weil MH, Budinger T, Carrico J, Kern K, Nichol G, Shechter I, Traystman R, Webb C, Wiedemann H, Wise R, Sopko G: The PULSE initiative: scientific priorities and strategic planning for resuscitation research and life saving therapies. *Circulation*. 105:2562-2570, 2002.

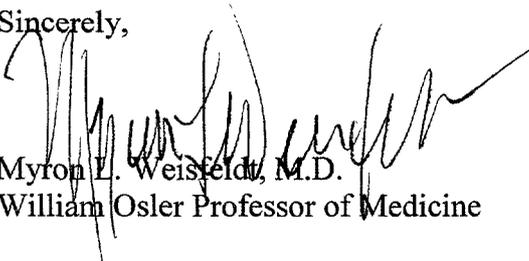
I have had no personal revenue, grant support or other financial relationship including stock ownership with any AED manufacturers.

As well, I have been involved as a member of the steering committee and as a liaison officer in the development, conduct and creation of the Public Access Defibrillation study which was recently reported as initial results at the meeting of the American College of Cardiology in March. This study documented that with non-physician, non-professional lay volunteers, the presence of AEDs in public places can result in twice the survival rate compared to sites where AEDs are not present (and CPR is instructed). These results along with the results in airports, casinos and other places where individuals are trained to have a duty to respond show a very dramatic benefit of these devices. It is certainly my belief and the belief of many health professionals that these devices over the next several years will be broadly distributed in public buildings, as well as in many homes and residences where there are patients with cardiac disease. I do believe that the FDA re-classifying these devices would be of help to the industry and to the straightforward development of better and easier to use devices as new resuscitation science and clinical trial results indicate.

I support reclassification of AEDs to Class II based on a review and knowledge of the record of error-free operations of these devices, the literature, my clinical experience and safeguards currently in place to address potential risk. The record is nearly serious risk-free for their use. I am convinced by my knowledge and experience that risk and adverse events are rare and minimal compared to the clinical benefit they provide.

Thank you for the opportunity to share my views.

Sincerely,



Myron L. Weisfeldt, M.D.
William Osler Professor of Medicine

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Enclosure: Curriculum Vitae of Myron L. Weisfeldt, M.D.

Curriculum Vitae
The Johns Hopkins University School of Medicine

Signature: _____ Date 01/08/04
Myron L. Weisfeldt, M.D.

DEMOGRAPHIC INFORMATION

Current Appointments:

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Home Information:

Date of Birth: April 25, 1940

Married:

Children:

Education and Training:

1954-1958 Whitefish Bay High School
Milwaukee, Wisconsin

1958-1960	Northwestern University Evanston, Illinois
1960-1962	Johns Hopkins University, Baltimore, MD B. A. (Accelerated Program)
1962-1965	Johns Hopkins Medical School, Baltimore, MD M. D.
1963-1964	Post-Sophomore Fellow Laboratory of Cardiovascular Physiology (Dr. Stanley Sarnoff) National Institutes of Health Bethesda, MD
1965-1967	Intern & Assistant Resident in Medicine Columbia Presbyterian Medical Center, New York, NY
1967-1969	Clinical Associate U. S. Public Health Service National Institutes of Health Gerontology Research Center Baltimore, MD
1969-1970	Senior Assistant Resident in Medicine Massachusetts General Hospital Boston, MA
1970-1972	Clinical & Research Fellow in Cardiology Massachusetts General Hospital Boston, MA

Professional Experience:

1972-1975	Assistant Professor of Medicine Johns Hopkins University School of Medicine Baltimore, MD
1972-1991	Director, Peter Belfer Laboratory for Myocardial Research Johns Hopkins University School of Medicine Baltimore, MD

1972-1977	Assistant Physician Johns Hopkins Hospital Baltimore, MD
1972-1977	Guest Investigator National Institutes of Aging National Institute of Child Health & Human Development
1974-1975	Established Investigator American Heart Association
1977-1991	Active Staff Physician Johns Hopkins Hospital Baltimore, MD
1975-1978	Associate Professor of Medicine Johns Hopkins University School of Medicine Baltimore, MD
1975-1991	Director, Cardiology Division Johns Hopkins University School of Medicine Baltimore, MD
1976-1991	Member, Principal Staff The Johns Hopkins Applied Physics Laboratory Laurel, MD
1977-1991	Director, Ischemic Heart Disease Specialized Center of Research (SCOR) National Heart, Lung, and Blood Institute
1978-1991	Professor of Medicine Johns Hopkins University School of Medicine
1979-1991	Robert L. Levy Professor of Cardiology Johns Hopkins University School of Medicine
1991-2001	Samuel Bard Professor of Medicine Chair, Department of Medicine Columbia University - College of Physicians & Surgeons Director, Medical Service Columbia-Presbyterian Campus New York Presbyterian Hospital

RESEARCH ACTIVITIES:

Publications:

1. Lepley D Jr., **Weisfeldt ML**, Close AS, Schmidt B, Bowler J, Kory R, Ellison EH: Effect of low molecular weight dextran on hemorrhagic shock. *Surgery* 54:93-103, 1963.
2. Daggett WM, Weisfeldt **ML**, Sarnoff SJ: Cardiac dynamics and contractility after acetyl strophanthidin in the closed chest dog. *Surgical Forum* XV:251-253, 1964.
3. Sarnoff SJ, Gilmore JP, **Weisfeldt ML**, Daggett WM, Mansfield PG: Influence of norepinephrine on myocardial oxygen consumption under controlled hemodynamic conditions. *Am. J. Cardiol.* 16:217-226, 1965.
4. Gilmore JP, **Weisfeldt ML**: Contribution of intravascular receptors to the renal responses following intravascular volume expansion. *Circ. Res.* 17:144-154, 1965.
5. Daggett WM, **Weisfeldt ML**: Influence of the sympathetic nervous system on the response of the normal heart to digitalis. *Am. J. Cardiol.* 16:394-405, 1965.
6. Sarnoff SJ, Gilmore JP, Daggett WM, Mansfield PB, McDonald R, **Weisfeldt ML**: Net K loss and changes in oxygen consumption and ventricular performance during paired stimulation of the heart. *Bull. N. Y. Acad. Med.* 41:602-605, 1965.
7. Sarnoff SJ, Gilmore JP, Daggett WM, Mansfield PB, **Weisfeldt ML**, McDonald R: Myocardial dynamics, contractility, oxygen consumption and K balance during paired stimulation. *Am. J. Physiol.* 211:376-386, 1966.
8. Sarnoff SJ, Gilmore JP, McDonald R, Daggett WM, **Weisfeldt ML**, Mansfield PB: Relationship between myocardial K balance, oxygen consumption and contractility. *Am. J. Physiol.* 211:361-375, 1966.
9. Shreiner DP, **Weisfeldt ML**, Shock NW: Effect of age, sex and breeding status on the rat heart. *Am. J. Physiol.* 217:176-180, 1969.

10. **Weisfeldt ML**, Shock NW: Effect of perfusion pressure on coronary flow and oxygen usage of the nonworking heart. *Am. J. Physiol.* 218:95-101, 1970.
11. **Weisfeldt ML**, Wright JR, Shreiner DP, Lakatta EG, Shock NW: Coronary flow and oxygen extraction in perfused hearts of senescent male rats. *J. Appl. Physiol.* 30:44-49, 1971.
12. **Weisfeldt ML**, Loeven WA, Shock NW: Resting and active mechanical properties of trabeculae carneae from aged male rats. *Am. J. Physiol.* 220:1921-1927, 1971.
13. Scully HE, Bello A, Beierholm E, Frederiksen J, **Weisfeldt ML**, Daggett WM: The relationship between the atrial systole-ventricular systole interval and left ventricular performance. *J. Thorac. Cardiovasc. Surg.* 65:684-694, 1973.
14. **Weisfeldt ML**, Scully HE, Selden R, Bello AC, Powell WJ Jr, Daggett WM: Effect of mannitol on the performance of the isolated canine heart following fibrillatory arrest. *J. Thorac. Cardiovasc. Surg.* 66:290-299, 1973.
15. Reid PR, Taylor DR, Kelly DT, **Weisfeldt ML**, Humphries JO, Ross RS, Pitt B: Myocardial infarct extension detected by precordial ST segment mapping. *New Engl. J. Med.* 290:123-128, 1974.
16. Willerson JT, **Weisfeldt ML**, Sanders CA, Powell WJ Jr: Influence of hyperosmolar agents on hypoxic cat papillary muscle. *Cardiovasc. Res.* 8:8-17, 1974.
17. **Weisfeldt ML**, Armstrong P, Scully HE, Sanders CA, Daggett WM: Incomplete relaxation between beats following myocardial hypoxia and ischemia. *J. Clin. Invest.* 53:1626-1636, 1974.
18. **Weisfeldt ML**, Scully HE, Frederiksen J, Rubenstein JJ, Pohost GM, Beierholm E, Bello A, Daggett WM: Hemodynamic determinants of maximum negative dp/dt and the periods of diastole. *Am. J. Physiol.* 227:613-621, 1974.
19. Rigo P, Murray M, Strauss HW, Taylor DR, Kelly DT, **Weisfeldt ML**, Pitt B: Left ventricular function in acute myocardial infarction evaluated by gated scintiphography. *Circulation* 50:678-684, 1974.

20. Angell CS, Lakatta EG, **Weisfeldt ML**, Shock NW: Relationship of intramyocardial oxygen tension and epicardial ST segment changes following coronary artery ligation: Effect of coronary perfusion pressure. *Cardiovasc. Res.* 9:12, 1975.
21. Lakatta EG, Gerstenblith G, Angell CS, Shock NW, **Weisfeldt ML**: Diminished inotropic response to aged myocardium to catecholamines. *Circ. Res.* 36:262-269, 1975.
22. Lakatta EG, Gerstenblith G, Angell CS, Shock NW, **Weisfeldt ML**: Prolonged contraction duration in aged myocardium. *J. Clin. Invest.* 55:61-68, 1975.
23. Pohost GM, Dinsmore RE, Rubenstein JF, O'Keefe DD, Grantham RN, Scully HE, Beierholm EA, Frederiksen JW, **Weisfeldt ML**, Daggett WM: The echocardiogram of the anterior leaflet of the mitral valve. Correction with hemodynamic and cinerentgenographic studies in dogs. *Circulation* 51:88-97, 1975.
24. Delgado C, Pitt B, Taylor DR, **Weisfeldt ML**, Kelly DT: Role of sublingual nitroglycerin in patients with acute myocardial infarction. *Brit. Heart J.* 37:392-396, 1975.
25. Flaherty JT, Reid P, Kelly DT, Taylor DR, **Weisfeldt ML**, Pitt B: Intravenous nitroglycerin in acute myocardial infarction. *Circulation* 51:132-139, 1975.
26. **Weisfeldt ML**, Greene HL: Improving cardiopulmonary resuscitation. *Md. State Med. J.* 24(3):86-87, 1975.
27. Rigo P, Murray M, Taylor DR, **Weisfeldt ML**, Strauss HW, Pitt B: Hemodynamic and prognostic findings in patients with transmural and nontransmural infarction. *Circulation* 51:1064-1070, 1975.
28. Rigo P, Murray M, Taylor DR, **Weisfeldt ML**, Kelly DT, Strauss HW, Pitt B: Right ventricular dysfunction detected by gated scintiphotography in patients with acute inferior myocardial infarction. *Circulation* 52:268-274, 1975.

29. Come PC, Flaherty JT, Baird MG, Rouleau J, **Weisfeldt ML**, Greene HL, Becker, LC, Pitt B: Reversal by phenylephrine of the beneficial effects of intravenous nitroglycerin in patients with acute myocardial infarction. *New Engl. J. Med.* 293:1003-1007, 1975.
30. Gerstenblith G, Lakatta EG, **Weisfeldt ML**: Age change in myocardial function and exercise response. *Prog. Cardiovasc. Dis.* 19:1-21, 1976.
31. Bishop RL, **Weisfeldt ML**: Sodium bicarbonate administration during cardiac arrest: Effect of arterial pH, pCO₂ and osmolality. *JAMA* 235:506-509, 1976.
32. Flaherty JT, Come PC, Baird MG, Rouleau J, Taylor DR, **Weisfeldt ML**, Greene HL, Becker LC, Pitt B: Effect of intravenous nitroglycerin on left ventricular function and ST segment changes in acute myocardial infarction. *Brit. Heart J.* 38:612-621, 1976.
33. Weiss JL, Frederiksen JW, **Weisfeldt ML**: Hemodynamic determinants of the time course of fall in canine left ventricular response. *J. Clin. Invest.* 58:751-760, 1976.
34. Greene HL, **Weisfeldt ML**: Determinants of hypoxic and post-hypoxic myocardial contracture. *Am. J. Physiol.* 232(5):H526-H533, 1977.
35. Spurgeon HA, Thorne PA, Yin FCP, Shock NW, **Weisfeldt ML**: Increased dynamic stiffness of trabeculae carneae from the senescent rat. *Am. J. Physiol.* 1:H373-H378, 1977.
36. Bulkley BH, **Weisfeldt ML**, Hutchins GM: Isometric cardiac contraction: A possible cause of the disorganized myocardial pattern of IHSS. *New Engl. J. Med.* 295:135-140, 1977.
37. Bulkley BH, **Weisfeldt ML**, Hutchins GM: Asymmetric septal hypertrophy and myocardial fiber disarray: Features of normal, developing and malformed hearts. *Circulation* 56:292-298, 1977.
38. Gerstenblith G, Frederiksen J, Yin FCP, Fortuin NJ, Lakatta EG, **Weisfeldt ML**: Echocardiographic assessment of a normal adult aging population. *Circulation* 56:273-278, 1977.

39. Taylor GJ, Tucker WM, Greene HL, Rudikoff MT, **Weisfeldt ML**: Importance of prolonged compression during cardiopulmonary resuscitation in man. *New Engl. J. Med.* 296:1515-1517, 1977.
40. Templeton GH, Platt MR, Willerson JT, **Weisfeldt ML**: Influence of aging left ventricular hemodynamic and stiffness in beagles. *Circ. Res.* 44(2):189-194, 1977.
41. Effron MB, Guarnieri T, Frederiksen JW, Greene HL, **Weisfeldt ML**: The effect of tris (hydromethyl) aminoethane on the function and metabolism of ischemic myocardium. *Am. J. Physiol.* 232(2):H167-H174, 1978.
42. Froehlich JP, Lakatta EG, Beard E, Spurgeon HA, **Weisfeldt ML**, Gerstenblith G: Studies of sarcoplasmic reticulum function and contraction duration in young adult and aged rat myocardium. *J. Molecular & Cellular Cardiol.* 10:427-438, 1978.
43. Hollis DP, Nunnally RL, Taylor GL, IV, **Weisfeldt ML**, Jacobus WE: Phosphorus nuclear magnetic resonance studies of heart physiology. *J. Mag. Res.* 29:319-330, 1978.
44. Yin FCP, Raizes GS, Guarnieri T, Spurgeon HA, Lakatta EG, Fortuin NJ, **Weisfeldt ML**: Age associated decrease in ventricular response to hemodynamic stress during beta-adrenergic blockade. *Brit. Heart J.* 40:1349-1355, 1978.
45. Taylor GJ, Rubin R, Tucker M, Greene HL, Rudikoff M, **Weisfeldt ML**: External cardiac compression: A randomized comparison of mechanical and manual techniques. *JAMA* 240(7):644-648, 1978.
46. Frederiksen JW, Weiss JL, **Weisfeldt ML**: Hemodynamic and pharmacologic influence on the time constant of isovolumic pressure fall in the working left ventricle. *Am. J. Physiol.* 235(6):H701-H706, 1978.
47. **Weisfeldt ML**, Frederiksen JW, Yin FCP, Weiss JL: Evidence of incomplete left ventricular relaxation in the dog: Prediction from the time constant for isovolumic pressure fall. *J. Clin. Invest.* 62:1296-1302, 1978.

48. Gerstenblith G, Spurgeon HA, Froehlich JP, **Weisfeldt ML**, Lakatta EG: Diminished inotropic responsiveness to ouabain in age rat myocardium. *Circ. Res.* 44:517-523, 1979.
49. Yin FCP, Spurgeon HA, Greene HL, Lakatta EG, **Weisfeldt ML**: Age-associated decrease in heart rate response to isoproterenol in dogs. *Mechanisms of Aging and Development* 10:17-25, 1979.
50. Maughan WL, Shoukas AA, Sagawa K, **Weisfeldt ML**: The instantaneous pressure-volume relationship of the canine right ventricle. *Circ. Res.* 44:309-315, 1979.
51. Eaton LW, Weiss JL, Bulkley BH, Garrison JB, **Weisfeldt ML**: Regional Cardiac Dilatation After Acute Myocardial Infarction: Recognition by Two-Dimensional Echocardiography. *New Engl. J. Med.* 300:57-62, 1979.
52. Weiss JL, **Weisfeldt ML**, Mason SJ, Garrison JB, Livengood SV, Queen JL, Fortuin NJ: Evidence of Frank-Starling effect in man during maximal semisupine exercise. *Circulation* 59:655-661, 1979.
53. Mason SJ, Weiss JL, **Weisfeldt ML**, Garrison JB, Fortuin NJ: Exercise echocardiography: Detection of wall motion abnormalities during ischemia. *Circulation* 50:50-59, 1979.
54. Guarnieri T, Spurgeon HA, Froehlich JP, **Weisfeldt ML**, Lakatta EG: Diminished inotropic response but unaltered toxicity to acetylstrophanthidin in the senescent beagle. *Circulation* 60:1548-1554, 1979.
55. Bulkley BH, Silverman K, **Weisfeldt ML**, Burow RD, Pond M, Becker LC: Pathologic basis of thallium 201 scintigraphic defects in patients with fatal myocardial injury. *Circulation* 60:785-792, 1979.
56. Brinker JA, Weiss JL, Lappe D, Rabson T, Summer WR, Permutt S, **Weisfeldt ML**: Leftward septal displacement during right ventricular loading in man. *Circulation* 61:626-633, 1980.

57. Rudikoff MT, Maughan WL, Effron M, Freund P, **Weisfeldt ML**: Mechanisms of blood flow during cardiopulmonary resuscitation. *Circulation* 61:345-352, 1980.
58. Yin FCP, Spurgeon HA, **Weisfeldt ML**, Lakatta EG: Mechanical properties of myocardium from hypertrophied rat heart: A comparison between the hypertrophy of senescence and aortic banding. *Circ. Res.* 46:292-300, 1980.
59. Baxter RH, Becker LC, Alderson PA, Rigo P, Wagner HN, **Weisfeldt ML**: Quantification of aortic valvular regurgitation in dogs by nuclear imaging. *Circulation* 61:404-410, 1980.
60. Chandra N, Rudikoff M, **Weisfeldt ML**: Simultaneous chest compression and ventilation at high airway pressure during cardiopulmonary resuscitation. *Lancet* 1:175-178, 1980.
61. Wei JY, Greene HL, **Weisfeldt ML**: Cough-facilitated reversion of ventricular tachycardia: The cough version. *Am. J. Cardiol.* 45:174-176, 1980.
62. Silverman KJ, Becker LC, Bulkley BH, Burow RD, Mellits ED, Kallman CH, **Weisfeldt ML**: Value of early thallium 201 scintigraphy for predicting mortality in patients with acute myocardial infarction. *Circulation* 61:996-1003, 1980.
63. Gerry JL, Becker LC, Flaherty JT, **Weisfeldt ML**: Evidence for a flow independent contribution to the phenomenon of thallium redistribution. *Am. J. Cardiol.* 45:58-62, 1980.
64. **Weisfeldt ML**, Weiss JL, Frederiksen JT, Yin FCP: Quantification of incomplete left ventricular relaxation: Relationship to the time constant for isovolumic pressure fall. *Europ. J. Cardiol.* 1(A):119-129, 1980.
65. Tsitlik JE, Chandra N, **Weisfeldt ML**: Instrumentation for cardiopulmonary resuscitation. *Proc. 8th Annual Northeast Bioengineering Conference*, pp. 275-278, 1980.

66. Mirowski M, Reid PR, Mower MM, Watkins L, Gott VL, Schauble J, Langer A, Heilman MS, Fischell RE, **Weisfeldt ML**: Termination of malignant ventricular arrhythmias with an implanted automatic defibrillator in human beings. *New Engl. J. Med.* 303:322-324, 1980.
67. Tsitlik JE, Chandra N, Snyder LD, **Weisfeldt ML**: The new approach to CPR. *IEEE/EMBS Newsletter* 19:10-14, 1981.
68. Come PC, Flaherty JT, Becker LC, **Weisfeldt ML**, Greene HL, Weiss JL, Pitt B: Combined administration of nitroglycerin and propranolol to patients with acute myocardial infarction. *Chest* 80:416-424, 1981.
69. Chandra N, **Weisfeldt ML**, Tsitlik J, Vaghaiwalla F, Snyder L, Hoffecker M, Rudikoff M: Augmentation of carotid flow during cardiopulmonary resuscitation by ventilation at high airway pressure simultaneous with chest compression. *Am. J. Cardiol.* 48:1053-1063, 1981.
70. Lieberman AN, Weiss JL, Jugdutt BI, Becker LC, Bulkley BH, Garrison JB, Hutchins GM, Kallman CH, **Weisfeldt ML**: Two-dimensional echocardiography and infarct size: Relationship of regional wall motion and thickening to the extent of myocardial infarction in the dog. *Circulation* 63:739-745, 1981.
71. Yin FCP, **Weisfeldt ML**, Milnor WR: The role of aortic input impedance in the decreased cardiovascular response to exercise with aging in the dog. *J. Clin. Invest.* 68:28-38, 1981.
72. Chandra N, Snyder LD, **Weisfeldt ML**: Abdominal binding during CPR in man. *JAMA* 246:351-353, 1981.
73. Fuchs RM, Brinker JA, Maughan WL, **Weisfeldt ML**, Yin FCP: Coronary flow limitation during development of ischemia in man. *Am. J. Cardiol.* 48:1029-1036, 1981.
74. Chandra N, Guerci A, **Weisfeldt ML**, Tsitlik J, LePor N: Contrasts between intrathoracic pressures during external chest compression and cardiac massage. *Crit. Care Med.* 9:789-791, 1981.

75. Mirowski M, Reid PR, Watkins L, **Weisfeldt ML**, Mower MM: Clinical treatment of life-threatening ventricular arrhythmias with the automatic implantable defibrillator. *Am. Heart J.* 102:265-270, 1981.
76. Mirowski M, Reid PR, Watkins L, **Weisfeldt ML**, Mower MM: Treatment of life-threatening ventricular arrhythmias with automatic implanted defibrillator. *Crit. Care Med.* 9:388-389, 1981.
77. Watkins L Jr, Mirowski M, Mower MM, Reid PR, Griffith LSC, Vlay SC, **Weisfeldt ML**, Gott VL: Automatic defibrillation in man: The initial surgical experience. *J. Thorac. Cardiovasc. Surg.* 82:492-500, 1981.
78. Guzman PA, Maughan WL, Eaton LW, Yin FCP, Brinker JA, **Weisfeldt ML**, Weiss JL: Transseptal pressure gradient with leftward septal displacement during right ventricular loading in man. *Brit. Heart J.* 46:657-662, 1982.
79. Cohen JM, Chandra N, Alderson PO, Van Aswegen A, Tsitlik J, **Weisfeldt ML**: Timing of pulmonary and systemic blood flow during intermittent high intrathoracic pressure cardiopulmonary resuscitation in the dog. *Am. J. Cardiol.* 49:1883-1888, 1982.
80. Erlebacher JA, Weiss JL, Eaton LW, Kallman CH, **Weisfeldt ML**, Bulkley BH: Late effects of acute infarct dilation on heart size: A two dimensional echocardiographic study. *Am. J. Cardiol.* 49:1120-1125, 1982.
81. Flaherty JT, **Weisfeldt ML**, Bulkley BH, Gardner TJ, Gott VL, Jacobus WE: Mechanisms of ischemic myocardial cell damage assessed by 31-phosphorus nuclear resonance. *Circulation* 65:561-571, 1982.
82. Fisher J, Vaghaiwalla F, Tsitlik J, Levin H, Brinker J, **Weisfeldt ML**, Yin F: Determinants and clinical significance of jugular venous valve competence. *Circulation* 65:188-196, 1982.
83. Yin FCP, Spurgeon HA, Raubusan K, **Weisfeldt ML**, Lakatta EG: Use of tibial length to quantify cardiac hypertrophy: Application in the aging rat. *Am. J. Physiol.* 243:H941-H947, 1982.

84. Pirollo JS, Hutchins GM, Moore GW, **Weisfeldt ML**: Myocyte disarray develops in papillary muscles released from normal tension after mitral valve replacement. *Circulation* 66:841-846, 1982.
85. Yin FCP, Cohen JM, Tsitlik J, Zola B, **Weisfeldt ML**: The role of carotid artery resistance to collapse in blood flow during high intrathoracic pressure cardiopulmonary resuscitation in the dog. *Am. J. Physiol.* 243:H259-H267, 1982.
86. Gerstenblith G, Ouyang P, Achuff SC, Bulkley BH, Becker LC, Mellits ED, Baughman KL, Weiss JL, Flaherty JT, Kallman CH, Llewellyn M, **Weisfeldt ML**: Nifedipine in unstable angina: Double-blind randomized trial. *New Engl. J. Med.* 306:885-894, 1982.
87. Jacobus WE, Pores IH, Lucas SK, **Weisfeldt ML**, Flaherty JT: Intracellular acidosis and contractility in the normal and ischemic heart as examined by ³¹NMR. *J. Molec. Cell. Cardiol.* 14:13-20, 1982.
88. Watkins L, Mirowski M, Mower MM, Reid PR, Freund P, Thomas A, **Weisfeldt ML**, Gott VL: Implantation of the automatic defibrillator: The subxiphoid approach. *Ann. Thorac. Surg.* 34:515-520, 1982.
89. Koehler RC, Chandra N, Guerci AD, Tsitlik J, Traystman RJ, Rogers MC, **Weisfeldt ML**: Augmentation of cerebral perfusion by simultaneous chest compression and lung inflation with abdominal binding following cardiac arrest in dog. *Circulation* 67:266-275, 1983.
90. Becker LC, Silverman KJ, Bulkley BH, Kallman CH, Mellits ED, **Weisfeldt ML**: Comparison of early thallium-201 scintigraphy and gated blood pool imaging for predicting mortality in patients with acute myocardial infarction. *Circulation* 67:1272-1282, 1983.
91. Blumenthal DS, Becker LC, Bulkley BH, Hutchins GM, **Weisfeldt ML**, Weiss JL: Impaired function of salvaged myocardium: Two-dimensional echocardiographic quantification of regional wall thickening in the open-chested dog. *Circulation* 67:225-233, 1983.
92. Gerstenblith G, Ouyang P, **Weisfeldt ML**: Medical management of unstable angina: New directions. *Hospital Formulary* pp. 38-42, 1983.

93. Mirowski M, Reid PR, Winkle RA, Mower MM, Watkins L, Stinson EB, Griffith LSC, Kallman CH, **Weisfeldt ML**: Reduced mortality in patients with implanted automatic defibrillators. *Ann. Int. Med.* 98:585-588, 1983.
94. Yin FCP, Guzman PA, Brin KP, Maughan WL, Brinker JA, Traill TA, Weiss JL, **Weisfeldt ML**: Effect of nitroprusside on hydraulic vascular loads on the right and left ventricle of patients with heart failure. *Circulation* 67:1330-1339, 1983.
95. Flaherty JT, Becker LC, Bulkley BH, Weiss JL, Gerstenblith G, Kallman CH, Silverman KJ, Wei JY, Pitt B, **Weisfeldt ML**: A randomized prospective trial of intravenous nitroglycerin in patients with acute myocardial infarction: Benefit of early treatment. *Circulation* 68:576-588, 1983.
96. Lima JAC, Weiss JL, Guzman PA, **Weisfeldt ML**, Reid PR, Traill TA: Incomplete filling and incoordinate contraction as mechanisms of hypotension during ventricular tachycardia in man. *Circulation* 68:928-938, 1983.
97. Tsitlik JE, **Weisfeldt ML**, Chandra N, Effron MB, Halperin HR, Levin HR: Elastic properties of the human chest during cardiopulmonary resuscitation. *Crit. Care Med.* 11:685-692, 1983.
98. Ouyang P, Bulkley BH, Mellits ED, Achuff SC, Baughman KL, **Weisfeldt ML**, Gerstenblith G: A double-blind randomized trial of nifedipine in post-infarction unstable angina. *Pract. Cardiol.* 3:30-38, 1983.
99. Tsitlik JE, Halperin HR, Yin FCP, **Weisfeldt ML**: Pressure amplification within intrathoracic viscera adjacent to the inflated lung. *Cardiovascular Systemic Dynamic Society*, Philadelphia, PA, pp. 150-153, 1984.
100. Rodeheffer RJ, Gerstenblith G, Becker LC, Fleg JL, **Weisfeldt ML**, Lakatta EG: Exercise cardiac output is maintained with advancing age in healthy human subjects: Cardiac dilatation and increased stroke volume compensate for a diminished heart rate. *Circulation* 69:203-213, 1984.
101. Erlebacher JA, Weiss JL, **Weisfeldt ML**, Bulkley BH: Early dilatation of the infarcted segment in acute transmural myocardial infarction: The role of infarct expansion in acute left ventricular enlargement. *J. Am. Coll. Cardiol.* 4:201-208, 1984.

102. Renlund DG, Gerstenblith G, Lakatta EG, Jacobus WE, Kallman CH, **Weisfeldt ML**: Perfusate sodium during ischemia modifies post ischemic functional and metabolic recovery in the rabbit heart. *J. Molec. Cell. Cardiol.* 16:795-801, 1984.
103. Ouyang P, Brinker JA, Mellits ED, **Weisfeldt ML**, Gerstenblith G: Variables predictive of successful medical therapy in patients with unstable angina: Selection of multivariate scintanalysis from clinical, electrocardiographic and angiographic evaluations. *Circulation* 70:367-376, 1984.
104. Franz MR, Flaherty JT, Platia EV, Bulkley BH, **Weisfeldt ML**: Localization of regional myocardial ischemia by monophasic action potential recording. *Circulation* 69:593-804, 1984.
105. Michael JR, Guerci AD, Koehler RC, Shi AY, Tsitlik J, Chandra N, Niedermeyer E, Rogers MC, Traystman RJ, **Weisfeldt ML**: Mechanisms whereby epinephrine augments cerebral and myocardial perfusion during cardiopulmonary resuscitation in dogs. *Circulation* 69:822-835, 1984.
106. Kono A, Maughan WL, Sunagawa K, Hamilton K, Sagawa K, **Weisfeldt ML**: The use of left ventricular end-ejection pressure and peak pressure in the estimation of end-systolic pressure volume relationship. *Circulation* 70:1057-1065, 1984.
107. Lerman BB, Weiss JL, Bulkley BH, Becker LC, **Weisfeldt ML**: Myocardial injury and arrhythmia induction by endocardial catheter DC shock in dogs. *Circulation* 69:1006-1012, 1984.
108. Gottlieb SO, Ouyang P, Achuff SC, Baughman KL, Traill TA, Mellits ED, **Weisfeldt ML**, Gerstenblith G: Acute nifedipine withdrawal: Consequences of preoperative and late cessation of therapy in patients with prior unstable angina. *J. Am. Coll. Cardiol.* 4:382-388, 1984.
109. Collen D, Topol E, Tiefenbrunn AJ, **Weisfeldt ML**, Sobel BE, Brinker JA, Ludbrook PA, Bulkley BH, Robinson AK, Bell WR, Spadaro JJ, Grossbard EB: Coronary thrombolysis with recombinant human tissue-type plasminogen activator: A prospective randomized placebo controlled trail. *Circulation* 70:1012-1017, 1984.

110. Guerci AD, Shi AY, Levin H, Tsitlik J, **Weisfeldt ML**, Chandra N: Transmission of intrathoracic pressure to the intracranial space during cardiopulmonary resuscitation in dogs. *Circ. Res.* 56:20-30, 1985.
111. Lima JAC, Becker LC, Melin JA, Lima S, Kallman CH, **Weisfeldt ML**, Weiss JL: Impaired thickening of non-ischemic myocardium during acute regional ischemia in the dog. *Circulation* 71:1048-1059, 1985.
112. Flaherty JT, Becker LC, Weiss JL, Brinker JA, Bulkley BH, Gerstenblith G, Kallman CH, **Weisfeldt ML**: Results of a randomized prospective trial of intrathoracic balloon counterpulsation and intravenous nitroglycerin in patients with acute myocardial infarction. *J. Am. Coll. Cardiol.* 6:434-446, 1985.
113. Topol EJ, Ciuffo AA, Pearson TA, Dillman J, Building S, Grossbard E, **Weisfeldt ML**, Bulkley BH: Thrombolysis with recombinant tissue plasminogen activator in atherosclerotic, thrombotic occlusion. *J. Am. Coll. Cardiol.* 5:85-91, 1985.
114. Bittl JA, **Weisfeldt ML**, Jacobus WE: Creatine kinase of heart mitochondria: The progressive loss of enzyme activity during in vivo ischemia and its correlation to depressed myocardial function. *J. Biol. Chem.* 260:208-214, 1985.
115. Ciuffo AA, Ouyang P, Becker LC, Levin L, **Weisfeldt ML**: Reduction of sympathetic inotropic response following ischemia in dogs: A contributor to stunned myocardium. *J. Clin. Invest.* 75:1504-1509, 1985.
116. Topol EJ, Weiss JL, Brinker JA, Brin KP, Gottlieb SO, Bulkley BH, Becker LC, Chandra N, Flaherty JT, Gerstenblith G, Gottlieb SH, Guerci AD, Ouyang P, Llewellyn MP, **Weisfeldt ML**, Shapiro EP: Regional wall motion improvement after coronary thrombolysis with recombinant tissue plasminogen activation: Importance of coronary angioplasty. *J. Am. Coll. Cardiol.* 6:426-433, 1985.
117. Topol EJ, Bell WR, **Weisfeldt ML**: Coronary thrombolysis with recombinant tissue-type plasminogen activator: Hematologic and pharmacologic study. *Ann. Int. Med.* 103:837-843, 1985.
118. Levine JH, Speak JF, Guarnieri T, **Weisfeldt ML**, Becker LC, DeLangen C, Moore EN: Cesium chloride induced long QT syndrome: Demonstration of afterdepolarization and triggered activity in vivo. *Circulation* 72:1092-1103, 1985.

119. Koehler RC, Michael JR, Guerci AD, Chandra N, Schleien CL, Dean JM, Rogers MC, **Weisfeldt ML**, Traystman RJ: Beneficial effect of epinephrine infusion on cerebral and myocardial blood flows during CPR. *Ann. Emerg. Med.* 14:744-749, 1985.
120. Pelikan PCD, Miceli MV, Jacobus WE, Bulkley BH, **Weisfeldt ML**, Gerstenblith G: Acute doxorubicin cardiotoxicity: Functional, metabolic and morphologic alterations in isolated perfused rat heart. *J. Cardiovasc. Pharmacology* 8:1058-1066, 1986.
121. Gottlieb SO, **Weisfeldt ML**, Ouyang P, Achuff SC, Baughman KL, Traill TA, Brinker JA, Shapiro EP, Chandra NC, Mellits ED, Townsend S, Gerstenblith G: Effect of the addition of propranolol to therapy with nifedipine for unstable angina pectoris: A randomized, double-blind, placebo-controlled trial. *Circulation* 73:331-337, 1986.
122. Halperin HR, Tsitlik JE, Guerci AD, Mellits ED, Levin HR, Shi AY, Chandra N, **Weisfeldt ML**: Determinants of blood flow to vital organs during cardiopulmonary resuscitation in dogs. *Circulation* 73:539-550, 1986.
123. Franz MR, Burkhoff D, Spurgeon H, **Weisfeldt ML**, Lakatta EG: In vitro validation of a new cardiac catheter technique for recording monophasic action potentials. *Europ. Heart J.* 7:34-41, 1986.
124. Hausknecht MJ, Wise RA, Brower RG, Hassapoyannes C, **Weisfeldt ML**, Suzuki J, Permutt S: Effects of lung inflation on blood flow during cardiopulmonary resuscitation in the canine isolated heart lung preparation. *Circ. Res.* 59:676-683, 1986.
125. Wagner JA, Reynolds IJ, Weisman HF, Dudeck P, **Weisfeldt ML**, Snyder SH: Calcium antagonist receptors in the cardiomyopathic hamster: Selective increases in heart and brain. *Science* 232:515-518, 1986.
126. Halperin HR, Guerci AD, Chandra N, Herskowitz A, Tsitlik JE, Niskanen RA, Wurmb E, **Weisfeldt ML**: Vest inflation without simultaneous ventilation during cardiac arrest in dogs: Improved survival from prolonged cardiopulmonary resuscitation. *Circulation* 74:1407-1415, 1986.

127. Gottlieb SO, **Weisfeldt ML**, Ouyang P, Mellits ED, Gerstenblith G: Silent ischemia as a marker for early unfavorable outcomes in patients with unstable angina. *New Engl. J. Med.* 314:1214-1219, 1986.
128. Kusuoka H, **Weisfeldt ML**, Zweier J, Jacobus WE, Marban E: Mechanism of early contractile failure during hypoxia in intact ferret heart: Evidence for modulation of maximal Ca^{2+} activated force by inorganic phosphate but not by pH. *Circ. Res.* 59:270-282, 1986.
129. Marban E, Kusuoka H, Yue DT, **Weisfeldt ML**, Wier WG: Maximal Ca^{2+} activated force elicited by tetanization of ferret papillary muscle and whole heart: Mechanism and characteristics of steady contractile activation in intact myocardium. *Circ. Res.* 59:262-269, 1986.
130. Lima JAC, Guzman PA, Yin FCP, Brawley RK, Traill TA, Lima SD, **Weisfeldt ML**, Weiss JL: Septal geometry in the unloaded living human heart. *Circulation* 74:463-468, 1986.
131. Ambrosio G, Becker LC, Hutchins GM, Weisman HF, **Weisfeldt ML**: Reduction in experimental infarct size by recombinant human superoxide dismutase: Insights into the pathophysiology of reperfusion injury. *Circulation* 74:1424-1433, 1986.
132. Guerci AD, Chandra N, Johnson E, Rayburn B, Wurmb E, Tsitlik J, Halperin H, Siu C, **Weisfeldt ML**: Failure of sodium bicarbonate to improve resuscitation from ventricular fibrillation in dogs. *Circulation (Suppl.)* 74:IV:75-IV:79, 1986.
133. Plotnick GD, Becker LC, Fisher ML, Gerstenblith G, Renlund DG, Fleg JL, **Weisfeldt ML**, Lakatta EG: Use of the Frank-Sterling mechanism during submaximal versus maximal upright exercise. *Am. J. Physiol.* 20:H1101-H1105, 1986.
134. Rodeheffer RJ, Gerstenblith G, Beard E, Fleg JL, Becker LC, **Weisfeldt ML**, Lakatta EG: Postural changes in cardiac volumes in men in relation to adult age. *Exper. Geront.* 21:367-378, 1986.

135. Gottlieb SH, Achuff SC, Mellits ED, Gerstenblith G, Baughman KL, Becker L, Chandra N, Henley S, Humphries JO, Heck C, Kennedy MM, **Weisfeldt ML**, Reid PR: Prophylactic antiarrhythmic therapy of high risk survivors of myocardial infarction: Lower mortality at one month but not at one year. *Circulation* 75:792-799, 1987.
136. Ambrosio G, **Weisfeldt ML**, Jacobus WE, Flaherty JT: Evidence of a reversible oxygen radical-mediated component of reperfusion injury: Reduction by recombinant human superoxide dismutase administered at the time of reflow. *Circulation* 75:282-291, 1987.
137. Guerci AD, Ciuffo AA, DiPaula AF, **Weisfeldt ML**: Intermittent coronary sinus occlusions in dogs: Reduction of infarct size 10 days after reperfusion. *J. Am. Coll. Cardiol.* 9:1075-1081, 1987.
138. Zweier JL, Flaherty JT, **Weisfeldt ML**: Direct measurement of free radical generation following reperfusion of ischemic myocardium. *Proc. National Academy of Sciences* 84:1404-1407, 1987.
139. Kusuoka H, Porterfield JK, Weisman HF, **Weisfeldt ML**, Marban E: Pathophysiology of pathogenesis of stunned myocardium: Depressed Ca^{2+} activation of contraction as a consequence of reperfusion-induced cellular calcium overload in ferret hearts. *J. Clin. Invest.* 79:950-961, 1987.
140. Singer I, Hutchins GM, Mirowski M, Mower MM, Veltri EP, Guarnieri T, Griffith LSC, Watkins L, Juanteguy J, Fisher S, Reid PR, **Weisfeldt ML**: Pathological findings related to the lead system and repeated defibrillations in patients with the automatic implantable cardioverter-defibrillator. *J. Am. Coll. Cardiol.* 10:382-388, 1987.
141. Tsitlik JE, Halperin HR, Guerci AD, Dvorine LS, Popel AS, Siu CO, Yin FCP, **Weisfeldt ML**: Augmentation of pressure in a vessel indenting the surface of the lung. *Ann. Biomed. Eng.* 15:259-284, 1987.
142. Hausknecht MJ, Brin KP, **Weisfeldt ML**, Yin FCP: Use of negative intrathoracic pressure to obtain end-systolic volume relations in dogs. *Ann. Biomed. Eng.* 15:361-372, 1987.

-
143. Gottlieb SO, **Weisfeldt ML**, Ouyang P, Mellits ED, Gerstenblith G: Silent ischemia predicts infarction and death during two year follow-up of unstable angina. *J. Am. Coll. Cardiol.* 10:756-760, 1987.

 144. Ambrosio G, Zweier JL, Jacobus WE, **Weisfeldt ML**, Flaherty JT: Improvement in post-ischemic myocardial function and metabolism by administration of deferoxamine at the time of reflow: The role of iron in the pathogenesis of reperfusion injury. *Circulation* 76:906-915, 1987.

 145. Halperin HR, Chew PH, **Weisfeldt ML**, Sagawa K, Humphrey JD, Yin FCP: Transverse stiffness: A method for estimation of myocardial wall stress. *Circ. Res.* 61:695-703, 1987.

 146. Zweier JL, Rayburn BK, Flaherty JT, **Weisfeldt ML**: Recombinant superoxide dismutase reduces oxygen free radical concentrations in reperfused myocardium. *J. Clin. Invest.* 80:1728-1734, 1987.

 147. Renlund DG, Lakatta EG, Fleg JL, Becker LC, Clulow JF, **Weisfeldt ML**, Gerstenblith G: Prolonged decrease in cardiac volumes following maximal upright bicycle exercise. *J. Appl. Physiol.* 63:1947-1955, 1987.

 148. Beyar R, Hausknecht M, Halperin H, Yin FCP, **Weisfeldt ML**: Interaction between the cardiac chambers and the thoracic pressure in the intact circulation. *Am. J. Physiol.* 253:H1240-H1252, 1987.

 149. Guerci AD, Gerstenblith G, Brinker JA, Chandra NC, Gottlieb SO, Bahr RD, Weiss JL, Shapiro EP, Flaherty JT, Bush DE, Chew PH, Gottlieb SH, Halperin HR, Ouyang P, Walford GD, Bell WR, Fatterpaker AK, Llewellyn M, Topol EJ, Healy B, Siu CO, Becker LC, **Weisfeldt ML**: A randomized trial of intravenous tissue plasminogen activator for acute myocardial infarction with subsequent randomization to elective coronary angioplasty. *New Engl. J. Med.* 317:1613-1618, 1987.

 150. Kass DA, Maughan WL, Ciuffo A, Graves W, Healy B, **Weisfeldt ML**: Disproportionate epicardial dilation after transmural infarction of the canine left ventricle: Acute and chronic differences. *J. Am. Coll. Cardiol.* 11:177-185, 1988.

151. Hausknecht MJ, Brin KP, **Weisfeldt ML**, Permutt S, Yin FCP: Effects of left ventricular loading by negative intrathoracic pressure in dog. *Circ. Res.* 62:620-631, 1988.
152. Gottlieb SO, Becker LC, Weiss JL, Shapiro EP, Chandra NC, Flaherty JT, Gottlieb SH, Ouyang P, Mellits ED, Townsend SN, **Weisfeldt ML**, Healy B, Gerstenblith G: Nifedipine in acute myocardial infarction: An assessment of left ventricular function, infarct size, and infarct expansion: A double-blind, randomized, placebo-controlled trial. *Brit. Heart J.* 59:411-418, 1988.
153. Platia EV, **Weisfeldt ML**, Franz MR: Immediate quantification of antiarrhythmic drug effect by monophasic action potential recording in coronary artery disease. *Am. J. Cardiol.* 61:1284-1287, 1988.
154. Schulman SP, Achuff SC, Griffith LSC, Humphries JO, Taylor GJ, Mellits ED, Kennedy M, Baumgartner R, **Weisfeldt ML**, Baughman KL: Prognostic cardiac catheterization variables in survivors of acute myocardial infarction: A five year prospective study. *J. Am. Coll. Cardiol.* 11:1164-1172, 1988.
155. Weisman HF, Bush DE, Mannisi JA, **Weisfeldt ML**, Bulkley BH: Cellular mechanisms of myocardial infarct expansion. *Circulation* 78:186-201, 1988.
156. Gottlieb SO, Gottlieb SH, Achuff SC, Mellits ED, **Weisfeldt ML**, Gerstenblith G: Silent ischemia on Holter monitoring predicts mortality in high-risk post-infarction patients. *JAMA* 259:1030-1035, 1988.
157. Halperin HR, Weiss JL, Guerci AD, Chandra N, Tsitlik JE, Brower R, Beattie C, Wurmb E, Cadden J, **Weisfeldt ML**: Cyclic elevation of intrathoracic pressure closes the mitral valve during cardiac arrest in dogs. *Circulation* 78:754-760, 1988.
158. Kitakaze M, **Weisfeldt ML**, Marban E: Acidosis during early reperfusion prevents myocardial stunning in perfused ferret hearts. *J. Clin. Invest.* 89:920-927, 1988.
159. Guerci AD, Thomas K, Hess D, Halperin HR, Tsitlik JE, Wurmb E, Eital D, **Weisfeldt ML**: Transconjunctival oximetry does not correlate with oxygen delivery during cardiopulmonary resuscitation in dogs. *Crit. Care Med.* 16:612-614, 1988.

160. Wagner JA, Sax FL, Weisman HF, Porterfield J, McIntosh C, **Weisfeldt ML**, Snyder SH, Epstein SE: Calcium antagonist receptors are selectively increased in atrial tissue of patients with hypertrophic cardiomyopathy. *New Engl. J. Med.* 320:755-761, 1989.
161. Beyar R, Halperin HR, Tsitlik JE, Guerci AD, Kass D, **Weisfeldt ML**, Chandra NC: Circulatory assistance by intrathoracic pressure variations: Optimization and mechanisms studies by a mathematical model in relation to experimental data. *Circ. Res.* 64:703-720, 1989.
162. Wagner JA, Weisman HF, Snowman AM, Reynolds IJ, **Weisfeldt ML**, Snyder SH: Alterations in calcium antagonist receptors and sodium-calcium exchange in cardiomyopathic hamster tissues. *Circ. Res.* 65:205-214, 1989.
163. Guerci AD, **Weisfeldt ML**: Clinical management of acute myocardial infarction. *Hospital Practice* 24:67-80, 1989.
164. Beyar R, Guerci AD, Halperin HR, Tsitlik JE, **Weisfeldt ML**: Intermittent coronary sinus occlusion after coronary arterial ligation results in venous retroperfusion. *Circ. Res.* 65:695-707, 1989.
165. Guerci AD, Halperin HR, Beyar R, Beattie C, Tsitlik JE, Wurmb EC, Chandra NC, **Weisfeldt ML**: Aortic diameter and pressure-flow sequence identify mechanism of blood flow during external chest compression in dogs. *J. Am. Coll. Cardiol.* 14:790-798, 1989.
166. Beyar R, Yin FCP, Hausknecht M, **Weisfeldt ML**, Kass D: Dependence of left ventricular twist-radial shortening relations on cardiac cycle phase. *Am. J. Physiol.* 257:H1119-H1126, 1989.
167. Halperin HR, Brower R, **Weisfeldt ML**, Tsitlik J, Chandra N, Cristiano L, Fessler H, Beyar R, Wurmb E, Guerci AD: Air trapping in the lungs during cardiopulmonary resuscitation in dogs: A mechanism for generating changes in intrathoracic pressure. *Circ. Res.* 65:946-954, 1989.
168. Zweier JL, Kuppusamy P, Williams R, Rayburn BK, Smith D, **Weisfeldt ML**, Flaherty JT: Measurement and characteristics of postischemic free radical generation in the isolated perfused heart. *J. Biol. Chem.* 264:18890-18895, 1989.

169. Krischer JP, Fine EG, **Weisfeldt ML**, Guerci A, Nagel E, Chandra N: Comparison of prehospital conventional and simultaneous compression-ventilation cardiopulmonary resuscitation. *Crit. Care Med.* 17:1263-1269, 1989.
170. Beyar R, Shapiro EP, Graves WH, Rogers WJ, Guier WH, Carey GA, Soulen RL, Zerhouni EA, **Weisfeldt ML**, Weiss JL: Quantification and validation of left ventricular wall thickening by three dimensional volume element magnetic imaging approach. *Circulation* 81:297-307, 1990.
171. Fleg JL, Gerstenblith G, Zonderman AB, Becker LC, **Weisfeldt ML**, Costa PT, Lakatta EG: Prevalence and prognostic significance of exercise-induced silent myocardial ischemia detected by thallium scintigraphy and electrocardiography in asymptomatic volunteers. *Circulation* 81:428-436, 1990.
172. Buchalter MB, Weiss JL, Rogers WJ, Zerhouni EA, **Weisfeldt ML**, Beyar R, Shapiro EP: Non-invasive quantification of left ventricular rotational deformation in normal humans using magnetic resonance myocardial tagging. *Circulation* 81:1236-1244, 1990.
173. Schulman SP, Weiss JL, Becker LC, Gottlieb SO, Woodruff KM, **Weisfeldt ML**, Gerstenblith G: The effects of antihypertensive therapy on left ventricular mass in elderly patients. *New Engl. J. Med.* 322:1350-1356, 1990.
174. Kusuoka H, Koretsune Y, Chacko VP, **Weisfeldt ML**, Marban E: Excitation-contraction coupling in postischemic myocardium: Does failure of activator Ca^{2+} transients underlie "stunning"? *Circ. Res.* 66:1268-1276, 1990.
175. Weisman HF, Bartow T, Leppo MK, Marsh HC, Carson GR, Concio MF, Boyle MP, Roux KH, **Weisfeldt ML**, Fearon DT: Soluble human complement receptor type 1: In vivo inhibitor of complement suppressing post-ischemic myocardial inflammation and necrosis. *Science* 249:146-151, 1990.
176. Midei M, Sugiura S, Maughan WL, Sagawa K, **Weisfeldt ML**, Guerci AD: Preservation of ventricular function by treatment of ventricular fibrillation with phenylephrine. *J. Am. Coll. Cardiol.* 16:489-494, 1990.

177. Silverman HS, Siddoway LA, Yavin Z, Gonenne A, **Weisfeldt ML**, Becker LC: Pharmacokinetics of recombinant human superoxide dismutase. *J. Cardiovasc. Pharm.* 16:107-111, 1990.
178. Chandra NC, Tsitlik JE, Halperin HR, Guerci AD, **Weisfeldt ML**: Observations of hemodynamics during human cardiopulmonary resuscitation. *Crit. Care Med.* 18:929-934, 1990.
179. Azhari H, Sideman S, Weiss JL, Shapiro EP, **Weisfeldt ML**, Graves WL, Rogers WJ, Beyar R: Three dimensional mapping of acute ischemic regions using MRI: Wall thickening versus motion analysis. *Am. J. Physiol.* 259:H1492-H1503, 1990.
180. Chandra NC, Beyar R, Halperin HR, Tsitlik JE, Wurmb E, Rayburn B, Guerci AD, **Weisfeldt ML**: Vital organ perfusion during assisted circulation by manipulation of intrathoracic pressure. *Circulation* 84:279-286, 1991.
181. Rogers WJ, Shapiro EP, Weiss JL, Buchalter MB, Rademakers FE, **Weisfeldt ML**, Zerhouni EA: Quantification and correction for left ventricular systolic long axis shortening by magnetic resonance tissue tagging and slice isolation. *Circulation.* 84:721-731, 1991.
182. Rademakers FE, Buchalter MB, Rogers WJ, Zerhouni EA, **Weisfeldt ML**, Weiss JL, Shapiro EP: Dissociation between left ventricular untwisting and filling: Accentuation by catecholamines. *Circulation* 85:1572-1581, 1992.
183. Grill, HP, Zweier, JL., Kuppusamy, P., **Weisfeldt, ML.**, Flaherty, JT: Direct Measurement of Myocardial Free Radical Generation in an In Vivo Model: Effects of Postischemic Reperfusion and Treatment with Human Recombinant Superoxide Dismutase. *J.Am.Coll.Cardiol.* 20:7 1604-1611, 1992.
184. Cobb LA, Eliastam M, Kerber RE, Melker R, Moss AJ, Newell L, Paraskos JA, Weaver WD, Weil M, **Weisfeldt ML**: AHA Task Force report: The Future of Cardiopulmonary Resuscitation. *Circulation* 85(6):2346-2355, 1992.
185. **Weisfeldt ML**: Challenges in Cardiac Arrest Research. *Annals of Emergency Medicine* 22:1 1993.

186. Beyar R, Weiss JL, Shapiro EP, Graves WL, Rogers WJ, **Weisfeldt ML**: Small Apex-to-Base Heterogeneity in Radius-to-Thickness-Ratio by Three Dimensional Magnetic Resonance Imaging. *Am. J. Physiol.* 0363-6135/93, H133-H140, 1993.
187. Shandelya SML, Kuppusamy P, **Weisfeldt ML**, Zweier J: Evaluation of the Role of Polymorphonuclear Leukocytes on Contractile Function in Myocardial Reperfusion Injury: Evidence for Plasma-Mediated Leukocyte Activation. *Circ.* 87:2,536-546, 1993.
188. Lima JAC, Jeremy R, Guier W, Bouton S, Zerhouni EA, McVeigh E, Buchalter MB, **Weisfeldt ML**, Shapiro EP, Weiss JL: Accurate systolic wall thickening by Nuclear Magnetic Resonance Imaging with tissue tagging: correlation with sonomicrometers in normal and ischemic myocardium. *J Am Coll Cardiol.*, 21:7, 1741-1752, 1993.
189. Halperin HR, Tsitlik JE, Gelfand M, **Weisfeldt ML**, Gruben KG, Levin HR, Rayburn BK, Chandra NC, Scott CJ, Kreps BJ, Siu CO, Guerci AD: A preliminary study of cardiopulmonary resuscitation by circumferential compression of the chest with use of a pneumatic vest. *New England J Medicine.* 329:11, 762-768, 1993.
190. Chandra NC, Gruben CG, Tsitlik JE, Brower R, Guerci AD, Halperin H, **Weisfeldt ML**, Permutt S: Observations of ventilation during resuscitation in a canine model. *Circulation*, 90:6, 3070-3075, 1994.
191. Shandelya SML, Kuppusamy P, Herschkowitz A, **Weisfeldt ML**, Zweier JL: Soluble complement receptor type 1 inhibits the complement pathway and prevents contractile failure in the postischemic heart: evidence that complement activation is required for neutrophil mediated reperfusion injury. *Circulation*, 88:6 2812-2826, 1993.
192. Rademakers FE, Rogers WJ, Guier WH, Hutchins GM, Siu CO, **Weisfeldt ML**, Weiss JL, Shapiro EP: Relation of Regional Cross-Fiber Shortening to Wall Thickening in the Intact Heart: Three-dimensional Strain Analysis by NMR Tagging. *Circulation*, 89:3 1174-1182, 1994.
193. Ouyang P, Becker LC, Effron MB, Herskowitz A, **Weisfeldt ML**: Hemodynamic vascular forces contribute to impaired endothelium-dependent vasodilation in reperfused canine epicardial coronary arteries. *JACC* 23:5 1216-1223, 1994.

194. Buchalter MB, Rademakers FE, Weiss JL, Rogers WJ, **Weisfeldt ML**, Shapiro EP: Rotational deformation of the canine left ventricle measured by magnetic resonance tagging: effects of catecholamines, ischaemia, and pacing. *Cardiovascular Research* 28:5 629-35, 1994.
195. Chandra NC, Fine E, Guerci A, **Weisfeldt ML**, Krischer J: Hospital mortality in survivors of out-of-hospital cardiac arrest. *J Am Med Assoc* (Submitted).
196. **Weisfeldt ML**, Kerber RE, McGoldrick RP, Moss AJ, Nichol G, Ornato JP, Palmer DG, Riegel B, Smith Jr. SC: American Heart Association Report on the Public Access Defibrillation Conference December 8-10, 1994. *Circulation*. 1995; 92:2740-2747.
197. Shea S, Nickerson KG, Tenenbaum J, Morris TQ, Rabinowith D, O'Donnell K, Perez E, **Weisfeldt ML**: Compensation to a department of medicine and its faculty members for the teaching of medical students and house staff. *NEJM*. 334:3, 162-185, 1996.
198. Halle AA,III, Tang W, Schock R, **Weisfeldt ML**, Pepe PE, Paradis NA: Alternatives to conventional chest compression. *New Horizons*. 5:112-119, 1997.
199. Nichol G, Hallstrom AP, Kerber R, Moss AJ, Ornato JP, Palmer D, Riegel B, Smith S, **Weisfeldt ML**: American Heart Association report on the second public access defibrillation conference, April 17-19, 1997, Special Report. *Circulation*. 97:1309-1314, 1998.
200. Nichol G, Hallstrom A, Ornato JP, Riegel B, Stiell I, Valenzuela T, Wells G, White RD, **Weisfeldt ML**: Increased public access to defibrillation could prove potentially cost-effective and life-saving. *Circulation*. 97:1315-1320, 1998.
201. Kline RP, Wu, EX, Patrylak DP, Szabolcs M, Alderson PO, **Weisfeldt ML**, Cannon P, Katz J: Rapid *in vivo* monitoring of chemotherapeutic response using weighted sodium magnetic resonance imaging. *Clinical Cancer Research*. 6;2146-2156, 2000.
202. Passamani ER, **Weisfeldt ML**: Task Force 3: Special aspects of research conduct in the emergency setting: Waiver of informed consent. *J Am Coll of Cardiol*. 4:825-280, 2000.

-
203. Kim HE, Dalal SS, Chen C-T, Legato MJ, **Weisfeldt ML**, D'Armiento J: Disruption of the myocardial extracellular matrix leads of cardiac dysfunction. *J Clin Invest.* 106:857-866, 2000.
 204. Weil MH, Becker L, Budinger T, Kern K, Nichol G, Shechter I, Traystman R, Wiedemann H, Wise R, **Weisfeldt M**, Sopko G: Workshop executive summary report: post-resuscitative and initial utility in life saving efforts (PULSE). *Circulation.* 103:1182-1184, 2001.
 205. Atkins D, Bossaert L, Hazinski M, Kerber R, Mancini MB, Ornato J, Peberdy MA, Quan L, Tang W, Timerman S, **Weisfeldt M**, White R: Automated external defibrillation/public access defibrillation. *Ann Emerg Med.* 37:S60-S67, 2001.
 206. Weil M, Becker L, Budinger T, Kern K, Nichol G, Schechter I, Traystman R, Wiedemann H, Wise R, **Weisfeldt M**, Sopko G: Post resuscitative and initial utility in life saving efforts (pulse): A workshop executive summary. *Resuscitation.* 50:23-25, 2001.
 207. Becker L, **Weisfeldt M**, Weil MH, Budinger T, Carrico J, Kern K, Nichol G, Shechter I, Traystman R, Webb C, Wiedemann H, Wise R, Sopko G: The PULSE initiative: scientific priorities and strategic planning for resuscitation research and life saving therapies. *Circulation.* 105:2562-2570, 2002.
 208. **Weisfeldt M**, Becker L: Resuscitation after cardiac arrest - A 3-phase time-sensitive model. Commentary: *JAMA.* 288:23, 3035-3038, 2002.
 209. Burne-Taney M, Kofler J, Yokota N, **Weisfeldt M**, Traystman R, Rabb H: Acute renal failure after whole body ischemia is characterized by inflammation and T cell-mediated injury. *Am J Physiol*

Books, Sections, Reviews, Editorials and Other

1. Caulfield JB, Willerson JT, **Weisfeldt ML**, Powell WJ Jr: Effect of mannitol on mitochondrial morphology in hypoxic myocardium. In Recent Advances in Studies on Cardiac Structure and Metabolism (eds. NS Dhalla, G Rona), University Park Press, Baltimore, MD 3:753, 1973.

2. **Weisfeldt ML:** Function of cardiac muscle in aging rat. In Exploration of Aging. VJ Cristofalo, J Roberts, RC Adelman. Plenum Publishing Corporation, New York, NY, pp. 95-118, 1975.
3. **Weisfeldt ML**, Bishop RL, Greene HL: Effects of pH and pCO₂ on performance of ischemic myocardium. In Recent Advances in Studies on Cardiac Structure and Metabolism (eds. NS Dhalla, G Rona), University Park Press, Baltimore, MD 10:355, 1975.
4. **Weisfeldt ML**, Ross RS: Congestive failure: Pathophysiology and the evaluation of ventricular function. Chapter 23 in The Principles and Practice of Medicine, Appleton-Century-Crofts, New York, 19th edition, 1976.
5. **Weisfeldt ML**, Flaherty JT: Myocardial infarction. Chapter in Clinical Cardiology, Grune and Stratton, 1976.
6. **Weisfeldt ML:** Angina pectoris, Chapter in Clinical Cardiology, Grune and Stratton, 1976.
7. **Weisfeldt ML:** Aging of cardiac muscle. In Aging: A Challenge to Science and Social Policy, Oxford University Press, Oxford, United Kingdom, 1979.
8. Gurley HT, McAslan TC, Nagel EL, **Weisfeldt ML:** Cardiopulmonary resuscitation. Chapter in The Management of Trauma, W. B. Saunders Company, Philadelphia, PA, 1979.
9. **Weisfeldt ML**, Editor. The Heart in Old Age: Its Function and Response to Stress. Raven Press, New York, NY 1980.
10. **Weisfeldt ML:** Aging of the cardiovascular system (editorial) *New Engl. J. Med.* 303:30, 1980.
11. **Weisfeldt ML**, Chandra N, Tsitlik JE, Rudikoff MT: New attempts to improve blood flow during CPR. Chapter in CPR and Emergency Cardiac Care: Looking to the Future. (Schluger J, Lyons AF, editors) EM Books, New York, NY 1980.
12. **Weisfeldt ML:** Congestive heart failure: Pathophysiology and the evaluation of ventricular function. Chapter 18 in The Principles and Practice of Medicine. Appleton-Century-Crofts, New York, 20th edition, 1980.
13. **Weisfeldt ML:** How blood flows during CPR. *Emergency Medicine*, 35-52, 1980.

14. Jacobus WE, Bittl JA, **Weisfeldt ML**: Loss of mitochondrial creatine kinase in vitro and in vivo: A sensitive index of ischemic cellular and functional damage. Chapter 14 in Heart Creatine Kinase: The Integration of Isoenzymes for Energy Distribution, (Jacobus WE, Ingwall JS, editors) Williams & Wilkens, Baltimore, MD 1981.
15. **Weisfeldt ML**, Chandra N: Physiology of cardiopulmonary resuscitation. In Annual Review of Medicine, Vol. 32, (eds. Creger WP, Coggins CH, EW Hancock) Annual Reviews, Inc., Palo Alto, CA 1981.
16. **Weisfeldt ML**, Chandra N: Cardiopulmonary resuscitation and the subsequent management of the patient. In The Heart, 5th edition, McGraw Hill, 1981.
17. Rogers MC, **Weisfeldt ML**, Traystman RJ: Cerebral blood flow during cardiopulmonary resuscitation. *Anesthesia & Analgesia* 60:73-75, 1981.
18. **Weisfeldt ML**: Aging of the cardiovascular system. In Aging: A Challenge to Science and Society. Vol. I, Compagnie Oxford Press de Grande-Bretagne, pp. 62-75, 1981.
19. **Weisfeldt ML**: Age changes in coronary vasculature in man. In Handbook of Physiology of Aging (editor: EJ Masoro), pg. 159, CRC Press, Boca Raton, Florida, 1981.
20. Becker LC, Silverman KJ, Bulkley BH, Mellits ED, Kallman CH, **Weisfeldt ML**: Value of early thallium-201 scintigraphy and gated blood pool imaging for predicting mortality in patients with acute myocardial infarction. In Annals for the New York Academy of Science. Sudden Coronary Death. (edited by Greenberg HM, Dwyer Jr EM), Vol. 382, The New York Academy of Sciences, New York, NY, pp. 450-464, 1982.
21. Jacobus WE, Pores IW, Lucas SK, Kallman CH, **Weisfeldt ML**, Flaherty JT: The role of intracellular pH in the control of normal and ischemic myocardial contractility: A 31-P nuclear magnetic resonance and mass spectrometry study. In Intracellular pH: Its Measurement, Regulation, and Utilization in Cellular Functions. (Nuccilitelli R, Deamer DW, editors). Alan R. Liss, New York, pp. 537-565, 1982.
22. **Weisfeldt ML**: Cardiopulmonary resuscitation: Issues and controversies. In Emergency Medicine Annual (editors BW Wolcott, DA Rund), Appleton-Century-Crofts, Norwalk, CT, pp. 1-11, 1982.

23. Flaherty JT, **Weisfeldt ML**, Hollis DP, Schaff HV, Gott VL, Jacobus WE: Mass spectrometry and phosphorus nuclear magnetic resonance demonstrate additive myocardial protection by potassium cardioplegia and hyperthermia during global ischemia. In Recent Advances in Myocardiology (Tajiuddin M, Bhatia B, Siddiqui HH, Rona G, editors) Vol. 2, University Park Press, Baltimore, MD, pp. 487-500, 1982.
24. Parmley WW, Hatcher Jr CR, Ewy GA, Furman S, Redding J, **Weisfeldt ML**: Task Force V: Physical interventions and adjunctive therapy. *Am. J. Cardiol.* 50:409-519, 1982.
25. **Weisfeldt ML**, Chandra N: Key references: Cardiopulmonary resuscitation. *Circulation* Part I: 66:898-900, and Part II: 66:1133-1135, 1982.
26. **Weisfeldt ML**, Chandra N, Fisher F, Yin FCP: Mechanisms of perfusion in cardiopulmonary resuscitation. In Textbook on Emergency Medicine. (eds. Shoemaker, Thompson, Holbrook). Saunders Co., Philadelphia, 1984.
27. Jacobus WE, Kallman CH, **Weisfeldt ML**, Flaherty JT: Nuclear magnetic resonance studies of intracellular pH and myocardial contractility during ischemia. In Cardiology (edited by EI Chazov, VN Smirov, RG Oganov), Plenum Publishing Corporation, pp. 583-595, 1984.
28. **Weisfeldt ML**: A total occlusion, two 70% lesions, normal ventricular function. *New Engl. J. Med.* 310:850, 1984.
29. **Weisfeldt ML**: (Editorial) Toward better CPR. *Emerg. Med.*, p. 120, 1984.
30. **Weisfeldt ML**, Gerstenblith G, Lakatta EG: Alterations in circulation function. Principles of Geriatrics Medicine (eds. Andres R, Bierman EL, Hazzard WR), McGraw-Hill Book Company, pp. 248-279, 1984.
31. Gerstenblith G, **Weisfeldt ML**, Lakatta EG: Disorders of the heart. In Principles of Geriatric Medicine (eds. Andres R, Bierman EL, Hazzard WR). McGraw-Hill Book Company, pp. 515-526, 1984.
32. **Weisfeldt ML**: Congestive heart failure: Pathophysiology and the evaluation of ventricular function. Chapter 18 in The Principles and Practice of Medicine, 21st edition (edited by Harvey AM, Johns RJ, McKusick VA, Owens AH Jr, Ross RS), Appleton-Century-Crofts, New York, pp. 183-191, 1984.

33. Ciuffo AA, Guerci AD, Halperin HR, Bulkey G, Casale A, **Weisfeldt ML**: Intermittent obstruction of the coronary sinus following coronary ligation in dogs reduces ischemic necrosis and increases myocardial perfusion : In The Coronary Sinus, Proceedings of the 1st International Symposium on Myocardial Protection via the Coronary Sinus, (eds. Mohl W, Wolner E, Glogar D), Steinkopff Verlag Darmstadt, Springer-Verlag, New York, pp. 454-464, 1984.
34. **Weisfeldt ML**, Gerstenblith G: Cardiovascular aging and adaptation to disease. In The Heart (eds. Hurst et al), McGraw-Hill, pp. 1403-1411, 1985.
35. **Weisfeldt ML**, Chandra NC: Cardiopulmonary resuscitation and the subsequent management of the patient. In The Heart (eds. Hurst et al), 6th edition, McGraw-Hill, pp. 546-554, 1985.
36. **Weisfeldt ML**: Recent advances in cardiopulmonary resuscitation. *Japanese Circulation Journal* 49:13-24, 1985.
37. **Weisfeldt ML**: The aging heart. In Hospital Practice 20:115-130, 1985.
38. Gurley HT, McAslan TC, Nagel EL, **Weisfeldt ML**: Cardiopulmonary resuscitation. In The Management of Trauma, 4th edition, (eds. Zuidema GD, Rutherford RB, Ballinger WF), pp. 27-36, 1985.
39. **Weisfeldt ML**, Melin J, Becker LC, Hutchins GM: Protective effect of early and late nifedipine during myocardial infarction in the conscious dog. In Recent Aspects of Calcium Antagonism (editor PR Lichtlen), Schattauer, Stuttgart, Germany, pp. 91-99, 1985.
40. Guerci AD, **Weisfeldt ML**: Cardiopulmonary resuscitation. In Emergency Medicine, 2nd edition (Kravis and Warner, eds.) Aspen Publications, Rockville, MD, 1985.
41. Guerci AD, **Weisfeldt ML**: Mechanical ventilatory cardiac support. In Critical Care Clinics, Vol. 2 (D Bergman, ed.) WB Saunders, Philadelphia, pp. 209-220, 1986.
42. Guerci AD, Halperin H, **Weisfeldt ML**: Cardiac arrest and cardiopulmonary resuscitation. In Management of Cardiac Arrhythmias: The Non-Pharmacologic Approach (ed. Platia E), JB Lippincott, Philadelphia, 1986.
43. **Weisfeldt ML**, Halperin HR: Cardiopulmonary resuscitation. Beyond external cardiac massage. *Circulation* 74:443-448, 1986.
44. Smith VE, **Weisfeldt ML**, Kata AM: Relaxation and diastolic properties of the heart. In Heart and Cardiovascular System (ed. by Fozzard HA, Jennings JB, Haber E, Katz AM, Morgan HE) Raven Press, New York, pp. 803-817, 1986.

45. **Weisfeldt ML**, Gerstenblith G, Gottlieb SO: Medical therapy of unstable angina. In 6th International Adalat Symposium: New Therapy of Ischaemic Heart Disease and Hypertension (ed. by PR Lichtlen), Excerpta Medica, pp. 34-37, 1986.
46. **Weisfeldt ML**: (Guest Editor) Exploring myocardial ischemia: Silent and symptomatic. *Am. J. Med.* 80(4C) 1-55, 1986.
47. Franz MR, Flaherty JT, **Weisfeldt ML**: Improved recovery of monophasic action potentials during reperfusion of ischemic myocardium in dogs pretreated with nifedipine. In New Therapy of Ischaemic Heart Disease and Hypertension (ed. by PR Lichtlen), Excerpta Medica, pp. 81-89, 1986.
48. Vlay SC, Kallman CH, **Weisfeldt ML**, Reid PR: Anatomic substrate and clinical outcome in survivors of sudden cardiac death: A multivariate analysis. *Cardiovasc. Rev. & Repts.* 7:861-875, 1986.
49. Gerstenblith G, **Weisfeldt ML**: Therapeutic expectations in the middle-aged or elderly hypertensive subject. *J. Clin. Hypertension* 3:79S-89S, 1986.
50. Guerci AD, Halperin HR, **Weisfeldt ML**: Cardiac arrest and cardiopulmonary resuscitation. In Management of Cardiac Arrhythmias: The Nonpharmacologic Approach (ed. by EV Platia), JB Lippincott Company, Philadelphia, PA, 1986.
51. **Weisfeldt ML**: Reperfusion and reperfusion injury. *Clin. Res.* 35:13-20, 1987.
52. Guerci AD, Halperin HR, **Weisfeldt ML**: Cardiac arrest and cardiopulmonary resuscitation. Chapter 17 in Management of Cardiac Arrhythmias (ed. by EV Platia), JB Lippincott Company, Philadelphia, pp. 387-398, 1987.
53. Gottlieb SO, **Weisfeldt ML**, Gerstenblith G: Silent myocardial ischemia in unstable angina: Prognostic considerations. In Silent Ischemia (ed. by von Arnim T, Maseri A) Steinkopff Verlag Darmstadt, pp. 56-61, 1987.
54. Guerci AD, **Weisfeldt ML**: Cardiopulmonary resuscitation. In Emergency Medicine, 2nd edition (ed. by Kravis and Warner), Aspen Publications, Rockville, MD. pp. 1039-1050, 1987.
55. Halperin HR, Chew PH, Tsitlik JE, Yin FCP, Maughan WL, Sagawa K, **Weisfeldt ML**: Regional myocardial wall stress. In Simulation and Control of the Nervous System (ed. by Sideman/Beyar) Vol. I, CRC Press, Boca Raton, FL, pp.114-121, 1987.
56. Weisman HF, **Weisfeldt ML**: Toward an understanding of the molecular basis of cardiomyopathies. *J. Am. Coll. Cardiol.* 10:1135-1138, 1987.

57. Marban E, Kusuoka H, **Weisfeldt ML**: Tetanization of intact hearts: A new strategy for studying the response of the contractile proteins to calcium. In Proc. of Henry Goldberg Memorial Symposium (R Beyar & S Sideman, eds.) Martinus-Nijhoff, Boston, pp. 241-252, 1987.
58. **Weisfeldt ML**, Lakatta EG, Gerstenblith G: Aging and cardiac disease. Ch. 50 in Heart Disease: A Textbook of Cardiovascular Medicine (ed. by E Braunwald) W. B. Saunders Company, pp. 1650-1662, 1988.
59. Ambrosio G, **Weisfeldt ML**, Flaherty JT, Becker LC: The role of toxic oxygen metabolites in myocardial ischemia. Chapter 13 in Human Inflammatory Disease: Clinical Immunology, Vol. 1 (ed. by Marone G, Lichtenstein LM, Condorelli M, Fauci AS) B. C. Decker, Inc., pp. 161-172, 1988.
60. Halperin HR, **Weisfeldt ML**: CPR: Movement of blood by intrathoracic pressure fluctuations. In Acute Coronary Care in the Thrombolytic Era (ed. by Wagner GS, Califf R, Mark D) Yearbook Medical Publishers, Ch. 10, pp. 114-126, 1988.
61. **Weisfeldt ML**: Application of new technology to progress in cardiology. Presented at *8th International Conf. of the Cardiovasc. System Dynamics Society*, Osaka, Japan, pp.52-66, 1988.
62. Hurst JW, **Weisfeldt ML**, Gerstenblith G, Becker AE: Aging of the cardiovascular system. In Atlas of the Heart (eds. Hurst JW, Anderson RH, Becker AE, Wilcox BR) McGraw-Hill Book Company, Ch. 16, pp. 16.1-16.3, 1988.
63. **Weisfeldt ML**: New approaches to cardiopulmonary resuscitation. In Trends in Coronary Heart Disease Mortality: The Influence of Medical Care (ed. by Higgins M & Luepker R) Oxford University Press, pp. 160-167, 1988.
64. Flaherty JT, **Weisfeldt ML**: Reperfusion injury. *Free Radical Biology & Medicine* 5:409-419, 1988.
65. **Weisfeldt ML**, Zweier JL, Flaherty JT: Oxygen-derived free radicals and myocardial ischemic injury. Heart Disease: Update (ed. by Braunwald E) W. B. Saunders & Co., pp.69-72, 1988.
66. **Weisfeldt ML**, Zweier JL, Ambrosio G, Becker LC, Flaherty JT: Evidence that free radicals result in reperfusion injury in heart muscle. In Oxygen Radicals in Biology & Medicine (ed. by Simic ME, Taylor KA, Ward JF, Von Sonntag C) Plenum, New York, pp. 911-919, 1988.
67. Guerci AD, **Weisfeldt ML**: Acute myocardial infarction. In Principles and Practice of Medicine (ed. by Harvey, Ross, McKusick, Owens, Ross) Appleton & Lange, 22nd edition, pp. 99-110, 1988.

68. Zweier JL, Flaherty JT, **Weisfeldt ML**: Measurement of free radical generation in the post-ischemic heart. *Proc. UCLA Symp., Oxy-Radicals in Molecular Biology and Pathology*, pp. 365-383, 1988.
69. Chandra NC, Weisfeldt ML: Mechanisms of perfusion in cardiopulmonary resuscitation. In Textbook of Emergency Medicine (Shoemaker, Thompson, Holbrook, eds.), 2nd edition, Saunders, Philadelphia, 1988.
70. **Weisfeldt ML**, Zweier JL, Becker LC, Ambrosio G, Flaherty JT: New aspects of drug therapy: Free radical scavengers. In Limitation of Infarct Size (ed. by Schmutzler H, Rutsch W, Dougherty FC) Springer-Verlag, pp. 75-82, 1989.
71. **Weisfeldt ML**, Gottlieb SO, Gottlieb SH, Gerstenblith G: Can myocardial infarction be prevented or limited by non-thrombolytic drugs? In Limitation of Infarct Size (ed. by Schmutzler H, Rutsch W, Dougherty FC) Springer-Verlag, pp. 71-74, 1989.
72. **Weisfeldt ML**: Adjunctive Pharmacologic therapy. In Thrombolysis and Interventional Therapy in Acute Myocardial Infarction (Ross & Wasserman, eds.), pp. 63-67, 1989.
73. **Weisfeldt ML**, Chandra NC: Cardiopulmonary resuscitation and the subsequent management of the patient. In The Heart (ed. by Hurst JW, Schlant RC, Rackley CE, Sonnenblick EH, Wenger NK) 7th edition, McGraw-Hill, pp. 615-623, 1989.
74. **Weisfeldt ML**, Gerstenblith G: Cardiovascular aging and adaptation to disease. In The Heart (ed. by Hurst JW, Schlant RC, Sonnenblick EH, Wenger NK), 7th edition, McGraw-Hill, pp. 1488-1496, 1989.
75. Beyar R, Halperin HR, Tsitlik JE, **Weisfeldt ML**, Guerci AD: Flow patterns during acute coronary ischemia and coronary sinus occlusion: A window to the mechanisms of "hidden" myocardial perfusion. In Stimulation and Analysis of Cardiac Function in Ischemic Heart Disease (eds. Sideman S, Beyar R) CRC Press, Boca Raton, FL, pp. 218-228, 1989.
76. Kusuoka H, Marban E, **Weisfeldt ML**: The cellular basis of stunned myocardium. Cardiac Mechanics and Function in the Normal and Diseased Heart (ed. by Hori, Kuroyuka, Suga, Baan, Yellin) Springer-Verlag, New York, pp. 55-61, 1989.
77. Gerstenblith G, **Weisfeldt ML**, Lakatta EG: Disorders of the heart. In Principles of Geriatric Medicine, 2nd edition, (eds. Hazzard WR, Andres R, Bierman E) McGraw-Hill, New York, pp.466-475, 1990.

78. Frommer PL, Ross Jr J, Benson JA, Friedman WF, Friesinger GC, Goldstein S, Huth EJ, Levine RJ, Malone TE, Quash JA, Tancredi LR, **Weisfeldt ML**: Task Force IV: Scientific responsibility and integrity in medical research. *J. Am. Coll. Cardiol.* 16:24-29, 1990.
79. Rosen MR, Strauss HC, Atkinson HG, Fishman AP, Francis CK, Katz AM, Watanabe AM, Abboud FM, **Weisfeldt ML**, Friedman WF, Healy BH, Ballin SD, Louis C, Starke RD, Frasher WF: The report of the American Heart Association Task Force on Strategies to Increase Federal Research Funding. *Circ. Res.* 67:1047-1057, 1990.
80. Weisman HF, Bartow T, Leppo MK, Boyle MP, Marsh Jr HC, Carson GR, Roux KH, **Weisfeldt ML**, Fearon DT: Recombinant soluble CR1 suppressed complement activation, inflammation, and necrosis associated with reperfusion of ischemic myocardium. *Trans. Assoc. Am. Physicians*, Vol. CIII:64-72, 1990.
81. **Weisfeldt ML**, Beyar R, Shapiro EP, Weiss JL, Rogers WJ, Zerhouni EA: MRI studies of ventricular volume and function. Imaging Analysis and Simulation of the Cardiac System (eds. Sideman S & Beyar R) Freund Publishing House, Ltd., London, England, pp. 3-17, 1990.
82. LaRosa JC, Hunninghake D, Bush D, Criqui MH, Getz GS, Gotto Jr. AM, Grundy SM, Rakita L, Robertson RM, **Weisfeldt ML**, Cleeman JI: The Cholesterol Facts: A Summary of the Evidence Relating Dietary Fats, Serum Cholesterol, and Coronary Heart Disease. AHA Medical/Scientific Statement Special Report. *Circ.* 81:5, 1721-1733, 1990.
83. **Weisfeldt ML**, Guerci AD: Sodium Bicarbonate in CPR. *Journal of the American Medical Association*, 266:2129-2130, 1991.
84. Zweier JL, Kuppusamy P, Shandelya SML, Thompson-Gorman S, Weisman HF, Fearon DT, **Weisfeldt ML**: Electron paramagnetic resonance measurements of free radical generation in isolated cells and whole tissues. In Molecular Basis of Oxidative Damage by Leucocytes (ed. Jesaitis/Dratz) CRC Press, Inc. 1991.
85. Guerci AD, **Weisfeldt ML**: Cardiopulmonary resuscitation. In Textbook of Internal Medicine (Kelly, ed.) JB Lippincott Company, Philadelphia, Chapter 28, pp 77-79, 1992.
86. **Weisfeldt ML**, Lakatta EG, Gerstenblith G: Aging and the Heart. Chapter 52 in Heart Disease: A Textbook of Cardiovascular Medicine (ed. by E. Braunwald) W.B. Saunders Company, pp 1656-1669, 1992.
87. Halperin H., **Weisfeldt ML**: New Approaches to CPR: Four Hands, a Plunger, or a Vest. *JAMA*, Vol 267, No. 21, pp 2940-2941, 1992.

88. Cobb LA, Eliastam M., Kerber RE, Melker R, Moss AJ, Newell L, Paraskos JA, Weaver WD, Weil M, and **Weisfeldt ML**: Report of the American Heart Association Task Force on the Future of Cardiopulmonary Resuscitation. *AHA Medical/Scientific Statement Special Report*. American Heart Association, 1992.
89. Guerci AD, **Weisfeldt ML**: Cardiopulmonary resuscitation. In Emergency Medicine: A Comprehensive Review, 3rd edition, (Kravis & Jacobus, eds.), Aspen Publishers, Inc., Rockville, MD (In press).
90. Chandra NC, **Weisfeldt ML**: Cardiopulmonary resuscitation and the subsequent management of the patient: In The Heart, (eds. Hurst et al), McGraw-Hill, 8th edition pp 959-969, 1994.
91. Schulman SP, **Weisfeldt ML**: Cardiovascular Aging and Adaptation to Disease. In The Heart, (eds. Hurst et al), McGraw-Hill, 8th edition, pp. 2067-2076, 1994.
92. **Weisfeldt ML**: Training for Academic Careers in the Twenty-First Century. *P&S Medical Review*, College of Physicians & Surgeons, Columbia University, vol. 1, No. 2:1-3, May, 1994.
93. Baughman KL, **Weisfeldt ML**: Congestive Heart Failure. In Differential Diagnosis (eds: Barondess and Carpenter), Lea & Febiger, Waverly, Inc. pp. 91-116, 1994.
94. Greenberg HM, Barondess J, Evarts CM, Golden WT, Nichols RW, Raymond SU, Scharz JS, **Weisfeldt ML**: A Summary Report from The New York Academy of Sciences, Excellence and the Future of Health Care, Public Health, and Biomedical Science. *Science in Society Policy Report*, 1994.
95. **Weisfeldt ML**: New Roles in Medicine and Medical Education: Opening Remarks. In Beyond the Crisis, Preserving the Capacity for Excellence in Health Care and Medical Science (eds. Greenberg HM, Raymond SU) Annals of the New York Academy of Sciences, vol. 729, 67, 1994.
96. Kelley WN, Randolph MA (editors): Careers in Clinical Research: Obstacles and Opportunities. Committee on Addressing Career Paths for Clinical Research. Division of Health Sciences Policy *Institute of Medicine*, 1994.
97. **Weisfeldt ML**, Kerber RE, McGoldrick RP, Moss AJ, Nichol G, Ornato JP, Palmer DG, Riegel B, Smith, Jr. SC: Public Access Defibrillation: A statement for healthcare professionals from the American Heart Association Task Force on Automatic External Defibrillation. *Circulation*. 1995; 92:2763.
98. **Weisfeldt ML**: Forward to: Cardiac Arrest: the science and practice of resuscitation medicine. (eds Paradis N, Halperin HR, Nowak RM.) Williams & Wilkins, Baltimore, 1996

Inventions, Patents, Copyrights (pending, awarded):

Patents:

- 09/09/83 Patent #4397306 - "Integrated system for cardiopulmonary resuscitation and circulation support." Weisfeldt ML, Tsitlik JE, Chandra NC.
- 05/29/90 Patent #4928674 - "Cardiopulmonary Resuscitation and Assisted Circulation System" Halperin H, Chandra NC, Tsitlik JE, Guerci AD, Weisfeldt ML.
- 8/2/93 Patent #5,217,010 - "ECG Amplifier and Cardiac Pacemaker for Use during Magnetic Resonance Imaging (NMR insensitive pacemaker)" Tsitlik JE, Weisfeldt ML, Halperin H, Levin H.
- 4/8/94 European patent application #92913382.5-2212. "MRI Interference-filtered Monitor, Stimulator and Pacemaker." Tsitlik JE, Levin RH, Halperin HR, Weisfeldt ML.

Extramural Sponsorship/Major Grant Support

- 1973-1991 Ischemic Heart Disease (SCOR) Grant
National Heart, Lung, and Blood Institute
- 1977-1991 Principal Investigator
Funded to 1995
- 1975-1991 Institutional National Heart, Lung, and Blood Institute Training Grant
Principal Investigator
Funded to 1996
- 1993-1997 Markey Foundation; Principal Investigator: "Career Tracks Toward Excellence in Basic Research." \$2.0 million MD/Ph.D. post doctoral training grant.

EDUCATIONAL ACTIVITIES

Editorial Board Appointments:

1975-1981 *Journal of Molecular and Cellular Cardiology*
1983-1988 Editorial Committee: American Society of Clinical Investigation
(*Journal of Clinical Investigation*)
1987-1989 *Journal of Molecular and Cellular Cardiology*
1978-1981 *Circulation*
1981-1983 *American Journal of Cardiology*
1982-1984 *Journal of Cardiovascular Ultrasonography*
1983-1993 *Circulation*
1993- *Circulation*, Consulting Editor
1985-1994 *Circulation Research*
1987-1992 *Journal of American College of Cardiology*
1990-1992 Editorial Advisory Board: *Internal Medicine News*
1991- *American Journal of Geriatric Cardiology*

CLINICAL ACTIVITIES

Certification: United States:
Maryland - 1965
Massachusetts - 1970
New York - 1991

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments (committees, dates):

Johns Hopkins Medical School Committees:

1975-1991 Executive Committee, Department of Medicine
1978-1980 Promotions Committee, Department of Medicine
1979-1985 Member, Professorial Promotions Committee
1981-1985 Chairman, Professorial Promotions Committee
1990-1991 Member, Advisory Board

Johns Hopkins Applied Physics Laboratory:

1981-1991 Chairman, Frank T. McClure Fellowship Program

Columbia-Presbyterian Medical Center Appointments:

1991-2001 Medical Board of Presbyterian Hospital
1998-2001 Executive Committee of the Medical Board
1994-2001 Voting Member, Faculty Council of the Faculty of Medicine
1994-2001 President, Columbia-Presbyterian Physicians Network (CPPN)
1996-1997 Acting co-CEO and President of Columbia-Cornell Care, LLC and MSO, Inc.
1996-2000 Vice Chair, Policy Board of Columbia-Cornell Care, LLC and MSO, Inc.

National Institutes of Health:

1979-1983 Research Review Committee - Cardiovascular Program Project
National Heart, Lung and Blood Institute
1986-1990 Cardiology Advisory Board
National Heart, Lung and Blood Institute
1987-1990 Chairman, Cardiology Advisory Board
National Heart, Lung and Blood Institute
1994-1995 Chairman, Parent Committee on the Heart Disease SCOR
National Heart, Lung and Blood Institute
1994-1998 Member, Board of Scientific Counselors, National Institute on Aging
1998-2000 Advisory Committee to NIH Director on Intramural Program, NHLBI
1999-2003 Member, National Advisory Council, National Institute on Aging
2000 Vice-Chairman, GPRA Assessment Working Group of the Advisory Committee to the Director, National Institutes of Health
2000 Co-Chair PULSE Working Group and Workshop on Resuscitation Research
2001 Chairman, GPRA Assessment Working Group of the Advisory Committee to the Director, National Institutes of Health

Institute of Medicine:

1996 Elected member
1991-1993 Task Force on the Future of the Clinical Investigator
2001 Committee on Stem Cell Research and the Promise of Regenerative Medicine

American Heart Association:

1989-1990 President, AHA (National)
1976-1979 Member-at-Large, Executive Committee
Council on Basic Science
1982-1985 Member-at-Large, Executive Committee
Council on Basic Science
1977-1985 Member, Board of Directors, Maryland
Chapter and/or Affiliate
1978-1980 Representative, Basic Science Council to Program Committee,
Scientific Sessions
1982-1985 Chairman, Katz Prize Committee, Basic Science Council
1984-1987 Member-at-Large, Board of Directors, Steering Committee
1988-1989 President-Elect, AHA (National)
1992 Award of Merit recipient
1993-1995 Chairman, International Program Committee
1993-1997 Chairman, Task Force on External Cardiac Defibrillation
1995-1996 Chairman, Conflict of Interest Review Committee
1998 Gold Heart Award, American Heart Association
2001 Task Force on Automatic External Defibrillators

Foundation Appointments:

1993-1994 Josiah Macy, Jr. Foundation, New York
Planning Committee, "Conference on Challenges to Medical
Education" New York 1993 and "Conference on the Financing of
Medical Education in the Era of Health Reform" Bermuda, 1994
1994 New York Academy of Sciences, New York
Conference Planning Committee, "Excellence and the Future of
Health Care, Public Health, and Biomedical Science"
1995-1998 Commonwealth Foundation, New York
Chairman, Grants Monitoring Program,

Professional Societies (membership, committees, dates, role):

1962	Phi Beta Kappa
1965	Alpha Omega Alpha
1969	American Society for Clinical Research
1972	Gerontological Society
1974	American Physiological Society
1975	Cardiac Muscle Society
1975	American Heart Association
1977	Basic Science Council
1989	Circulation Council
1989	Clinical Cardiology
1977	International Society for Heart Research
1977	Fellow, American College of Cardiology
1977	Association of University Cardiologists
1977	American Society for Clinical Investigation
1982	Interurban Clinical Club
1988	Association of American Physicians
1989-1992	Member, Academic/Scientific - Technion's International Board of Governors Haifa, Israel
1991	Fellow, American Association for Advancement of Science
1992	Fellow, New York Academy of Medicine
1992	New York Cardiological Society, Inc. Board of Directors
1992	Association of Professors of Medicine
1993-1994	New York Cardiological Society, Inc., Chairman, Program Committee
1994-1996	Member of the New York State Council on Graduate Medical Education
1994	Fellow, The New York Academy of Sciences
1994-1995	New York Cardiological Society, Inc.. Treasurer
1995	Fellow, American College of Physicians

Consultantships (organization/agency, date, role):

1991-2003 Merck Inc., Rahway, New Jersey, Scientific Advisory Board
1991-1998 InControl, Inc., Seattle, Washington, Scientific Advisory Board
1992-1998 CardioLogic, Inc., Baltimore, Md, Scientific Advisory Board
1988-1995 Lehman Brothers, Inc., New York, NY, Consultant
1993- Cambridge Heart, Inc., Boston, MA., Scientific Advisory Board
1995-2000 Dawson-Samberg Capital Management, Inc., Southport, CT,
Consultant
1999-2001 KBL Ventures Fund Scientific Advisory Board
1999- CHF Solutions (Intellicardia, Inc.), Chairman, Scientific Advisory
Board
2000 Paramount Venture Fund
2000- Institute Of Medicine , Committee on Stem Cell Research
2001 MPM Capital Investment in Healthcare Innovation

RECOGNITION

Awards:

1992-2002 Listed, "Best Doctors"
2003 Diversity Recognition Award

Visiting Professorships and Lectureships

1979 Pennsylvania State University, Hershey, PA
University of Texas Southwestern at Dallas, Dallas, TX
Case Western Reserve, Cleveland, OH
Guest Faculty Spring Cardiovascular Symposium
Duke University, Durham, NC

1980 University of Chicago, Chicago, IL
Queens University, Kingston, Ontario, Canada
John R. Sampson Visiting Professorship
University of California, San Francisco, CA
Vanderbilt University, Nashville, TN

1981 University of Pennsylvania, Philadelphia, PA
University of Connecticut, Hartford, CT
Albert Einstein College of Medicine, Bronx, NY
Cornell University, New York, NY
Case Western Reserve, Cleveland, OH

- 1982 · University of Alabama, Birmingham, AL
University of Kansas, Kansas City, KS
University of Iowa, Iowa City, IA
- University of Michigan, Ann Arbor, MI
Canadian Heart Foundation Lectureship
- 1983 Harvard University (Beth Israel Hospital), Boston, MA
Understein Memorial Lecture, George Washington University
John Kent Lewis Lectureship, Stanford University, Stanford, CA
Texas College of Osteopathic Medicine, Ft. Worth, TX
- 1984 University of Chicago, Chicago, IL
Boston University, Boston, MA
Keynote Speaker: Japanese Circulation Society, Japan
State University of New York at Stony Brook
- 1985 University of Alabama at Birmingham
Kirsh Memorial Lecturer: Sinai Hospital of Baltimore
Plenary Address: World Congress of Critical Care Medicine
Jerusalem, Israel
- 1986 American Federation for Clinical Research - Frontiers of
Science Lectureship - "Reperfusion and Reperfusion Injury"
Washington, D. C.
Xth World Congress of Cardiology - Geriatric Cardiology
Washington, D. C.
American Heart Association - State of the Art Lecture
"Role of Free Radicals and Inflammatory Mediators"
Dallas, TX
American Heart Association - Plenary Lecture -
"New Concepts of CPR" Dallas, TX
- 1987 J. Gerald Mudd Lecture - St Louis University
Medical School, St. Louis, MO
Neuton Stern Visiting Professor - University of Tennessee
College of Medicine, Memphis, TN
Teaching Fellowships - Rochester General Hospital Association
Rochester, NY
Visiting Scientist - Polish People's Republic - Instytut of
Kardiologii - Warsaw - Sponsored by National Institutes of Health
14th Annual Arvilla Berger Lecture - The New York Cardiological
Society - NY

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- 1995 University of Iowa, Iowa City, IO
Brown University, Providence, Rhode Island
Medical College of Virginia, Richmond, VA
- 1996 Riven Visiting Professor, Vanderbilt University, Nashville, TN
University of Texas at Houston, TX
- 1997 Ross Kyger Jr., M.D. Visiting Professor, University of Pennsylvania
- 1998 Emory University School of Medicine, Visiting Professor of
Cardiology University of Pennsylvania, Visiting Professor
University of Wisconsin, Malcomb Rodgers lecturer
American College of Legal Medicine, Keynote Speaker
- 1999 Ohio State University, Visiting Professor
- 2000 University of Maryland, Visiting Professor
Albert Einstein Medical Center, Grand Rounds Speaker
Columbia University Deans Distinguished Lectureship in the Clinical
Sciences
- 2001 University of Minnesota, Jay Cohen Lecturer
Dickenson Richards Lecture, American Heart Association Scientific
Sessions
Case Western Reserve University, Visiting Professor
- 2002 St. Agnes Health Care, Grand Rounds Speaker
University of Maryland, Visiting Professor
Sinai Hospital of Baltimore, Grand Rounds Speaker
University of Maryland, Grand Rounds Speaker
Robert Wood Johnson Medical School, Grand Rounds Speaker
- 2003 Montefiore Medical Center, Grand Rounds Speaker
Mercy Medical Center, Grand Rounds Speker